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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

	(PC1 Artele 30 and	Rule 70)			
Applicant's or agent's file reference O0304PCT	FOR FURTHER ACTION		ransmittalofInternationalPreliminary t (Form PCT/IPEA/416)		
International application No. PCT/KR2003/000837	International filing date(day/month/year) 25 APRIL 2003 (25.04.2003)		Priority date (day/month/year) 31 OCTOBER 2002 (31.10.2002)		
International Patent Classification (IPC) IPC7 G06K 19/077	or national classification and IF	PC .	•		
Applicant 3B SYSTEM, INC. et al					
and is transmitted to the applican	according to Article 36.		nal Preliminary Examining Authority		
amended and are the basis i	anied by ANNEXES, i.e., sheets for this report and/or sheets con the Administrative Instructions un	ntaining rectifications a	ims and/or drawings which have been nade before this Authority (see Rule		
3. This report contains indications relating to the following items: I X Basis of the report II Priority III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV Lack of unity of invention V X Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI Certain documents cited VII Certain defects in the international application VIII Certain observations on the international application					
Date of submission of the demand	Dat	e of completion of this	report		
05 JUNE 2003 (05	.06.2003)	28 JANUARY 20	05 (28.01.2005)		
Name and mailing address of the IPEA/ Korean Intellectual Propert 920 Dunsan-dong, Seo-gu, Republic of Korea Facsimile No. 82-42-472-7140	y Office Daejeon 302-701,	thorized officer LEE, Dong Young ephone No. 82-42-481	JE03		



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International aplication No.

PCT/KR2003/000837

I.	I. Basis of the report								
1.	1. With regard to the elements of the international application:*								
	X								
	\Box	the description:							
		pages, as originally filed							
		pages, filed with the demand							
		pages, filed with the letter of							
		the claims:							
		pages, as originally filed							
		pages, as amended (together with any statement) under Article 19 pages							
		pages, filed with the demand pages, filed with the letter of							
		the drawings:							
	ш	narran							
		pages, as originally filed pages, filed with the demand							
		pages, filed with the letter of							
1		the sequence listing part of the description:							
		pages, as originally filed							
. .		pages filed with the domand							
ŀ·	•	pages, filed with the letter of, filed with the demand							
2.									
3.	or 55.3). 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: contained inthe international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form.								
		furnished subsequently to this Authority in computer readable form							
!		The statement that the subsequently furnished written sequence listing does not go beyond the disc losure in the international applicationas as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.							
4.		The amendments have resulted in the cancellation of: the description, pages the claims, Nos.							
		the drawings, sheets							
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**							
*	* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed." and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).								
**	** Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.								



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 V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability citations and explanations supporting such statement 						
1.	Statement			,		
	Novelty (N)	Claims Claims	1-4 None	YES NO		
	Inventive step (IS)	Claims . Claims	1-3	YES NO		
	Industrial applicability (IA)	Claims Claims	1-4 None	YES NO		

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1: KR 2002-0022081 (23 March 2002) D2: KR 2000-0075577 (15 December 2000)

1. Novelty

The subject matter of claims 1-4 is novel over the available prior art (Article 33(2)

- 2. Inventive Step
- 1) Claim 1 of the present application claims a smart card comprising three or less lines of an antenna terminal portion so as to minimize an overlapped portion of the antenna terminal portion and a chip on board (COB) for minimizing a capacitance value COUNT of the smart card.

Claim 2 claims the smart card according to claim 1, wherein the antenna terminal portion has one line so as to minimize the overlapped portion of the antenna terminal portion and the COB, which is welded or soldered for electrical connection between the COB and the antenna terminal portion.

Claim 3 claims the smart card according to claim 1, wherein a width of a connection pad of the COB is 1.2 mm or less.

D1 discloses a combination-type IC card for assuring an electric connection by forming a contact terminal portion of an antenna in a form of straight line (see Fig. 8).

D2 discloses a method for manufacturing a smart card, characterized in that chip contact areas (25, 26) are arranged to have the same distance therebetween as the distance between antenna terminal portions (12, 14), so as to solder the chip contact areas (25, 26) and the antenna terminal portions (12, 14).

(Continued on Supplemental Sheet.)



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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of:

Box V.

It would be obvious to a person skilled in the art to derive the invention claimed in claim 1 from the antenna connection terminal portion of D1; it would also be obvious to a person skilled in the art to derive the inventions claimed in claims 2 and 3 from the combination of the antenna connection terminal portion of D1 and the soldering of D2. Therefore, claims 1-3 are considered to lack an inventive step in view of the combination of D1 and D2.

- 2) Claim 4 meets the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest a method of performing a laminating process after the connection of a COB with an antenna.
- 3. Industrial Applicability

Claims 1-4 are considered to be industrially applicable.